

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

### Reclamation District No. 2092 Dos Rios

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	10/04/2016 10/04/2016	Pavel Kazi

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>18</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_RD2092_01_f_2012_18				
Comment Code					
Inspector Comment					
River Partner crews will attend the upcoming flood fighting class offered in their area. A few members of the company have already been through a few flood events and received proper training.					

No Photos

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>24</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_RD2092_01_s_2012_24				
Comment Code					
Inspector Comment					
They have the latest O&M manual for their district.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 San Joaquin River	Right	3.71	10/04/2016 10/04/2016	Pavel Kazi

LM Start	0.00	Rating **	A	Issue No.	26		
LM End	0.00	Issue Type +	Ma	Location *	N/A		
Category	Earthen Levee			GPS Latitude/Longitude			
				Start		End	
Item	Emergency Supplies & Equipment				°		°
					°		°
DWR ID	DWR_RD2092_01_s_2012_26						
Comment Code							
Inspector Comment							
LMA has adequate flood fighting supplies.							

No Photos

LM Start	0.40	Rating **	A	Issue No.	12
LM End	0.40	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.601235 °	37.601235 °
				-121.165117 °	-121.165117 °
DWR ID	DWR_RD2092_01_f_2016_12				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Acceptable vegetation on the landside of the levee					

Photo 1 of 1 : FA\_2016\_RD2092\_116\_12\_20161005\_00033.jpg



View of the landside slope of the levee during fall 2016 inspection.

LM Start	0.65	Rating **	C	Issue No.	13
LM End	0.65	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.598640 °	37.598640 °
				-121.167578 °	-121.167578 °
DWR ID	DWR_RD2092_01_s_2016_13				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	10/04/2016 10/04/2016	Pavel Kazi

LM Start	1.21	Rating **	M	Issue No.	15
LM End	1.21	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.591293 °	37.591293 °
				-121.165434 °	-121.165434 °
DWR ID	DWR_RD2092_01_s_2016_15				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_RD2092\_116\_15\_20160823\_00005.jpg



View of rodent holes on the landside of the levee.

LM Start	1.32	Rating **	A/W	Issue No.	10
LM End	1.32	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.590467 °	37.590467 °
				-121.163822 °	-121.163822 °
DWR ID	DWR_RD2092_01_s_2012_10				
Comment Code					
PI : Pipe					
Inspector Comment					
A sand boil appeared on the landside toe of the levee because of an underground pipe leakage. The pipe and boil have been repaired but should be monitored.					

Photo 1 of 2 : FA\_2016\_RD2092\_116\_10\_20160823\_00002.jpg



During spring inspection 2012, the sand boil was not active but materials were present on the landside toe of the levee. The sand boil occurred due to an underground irrigation pipe leakage. The picture was taken from the crown looking toward the toe of the levee. The area was repaired but should be monitored.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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## Reclamation District No. 2092 Dos Rios

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	10/04/2016 10/04/2016	Pavel Kazi

LM Start	1.32	Rating **	A/W	Issue No.	10 (cont)
LM End	1.32	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.590467 °	37.590467 °
				-121.163822 °	-121.163822 °
DWR ID	DWR_RD2092_01_s _ 2012_10				
Comment Code					
PI : Pipe					
Inspector Comment					
A sand boil appeared on the landside toe of the levee because of an underground pipe leakage. The pipe and boil have been repaired but should be monitored.					

Photo 2 of 2 : FA\_2016\_RD2092\_116\_10\_20160823\_00003.jpg



A sand boil was found on the landside of the levee. It was caused by a pipe leak couple of feet below the boil location. LMA was notified to repair it as soon as possible. The picture was taken from the crown looking upstream.

LM Start	1.56	Rating **	M	Issue No.	16
LM End	1.56	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.587593 °	37.587593 °
				-121.162431 °	-121.162431 °
DWR ID	DWR_RD2092_01_f_2016_16				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_RD2092\_116\_16\_20161005\_00035.jpg



View of rodent holes on the landside of the levee looking downstream.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	N/A : Not Applicable A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

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Unit No. 01 San Joaquin River	Right	3.71	10/04/2016 10/04/2016	Pavel Kazi

LM Start	2.39	Rating **	C	Issue No.	17
LM End	2.39	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.580628 °	37.580628 °
				-121.156624 °	-121.156624 °
DWR ID	DWR_RD2092_01_s _ 2016_17				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Erosion due to runoff					

No Photos

LM Start	2.68	Rating **	C	Issue No.	29
LM End	2.68	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.576451 °	37.576451 °
				-121.157208 °	-121.157208 °
DWR ID	DWR_RD2092_01_s _ 2016_29				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	2.70	Rating **	C	Issue No.	19
LM End	2.70	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.576165 °	37.576165 °
				-121.157230 °	-121.157230 °
DWR ID	DWR_RD2092_01_s _ 2015_19				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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LM Start	2.73	Rating **	A	Issue No.	30
LM End	2.73	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.575743 °	37.575743 °
				-121.157237 °	-121.157237 °
DWR ID	DWR_RD2092_01_s_2016_30				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
LMA has repaired the rodent holes at this location.					

LM Start	<b>2.73</b>	Rating **	A	Issue No.	<b>30 (cont)</b>
LM End	<b>2.73</b>	Issue Type +	Ma	Location *	WS

Photo 1 of 2 : FA\_2016\_RD2092\_116\_30\_20161005\_00036.jpg



LMA has repaired the rodent holes on the waterside of the levee looking downstream. Fall 2016.

Photo 2 of 2 : FA\_2016\_RD2092\_116\_30\_20160823\_00009.jpg



View of multiple rodent holes on the waterside of the levee looking upstream. Spring 2016.

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